

### **ABSTRACT**

An architecture and manufacturing method for photosensitive chips, such as used in office equipment and digital cameras, involves creating grooves between chip areas in a wafer, and then placing a light-transmissive planar layer over the main surface of the wafer. The planar layer, which may be acrylic-based, creates a substantially planar surface over both the photosites in the chip areas and the grooves. The planar layer in turn supports one or more light-transmissive filtering layers. The arrangement avoids damage to the filtering layers when the wafer is diced along the grooves.